

IN THE CLAIMS

Please cancel claims 2-3, 7-8 and 14-15.

Please amend the claims as follows.

1 1. (Currently Amended) An apparatus comprising:
2 at least one processor;
3 a memory coupled to the at least one processor;
4 a plurality of logical partitions defined on the apparatus, the plurality of logical
5 partitions comprising at least one logical partition that owns identified I/O and at least
6 one logical partition that does not own the identified I/O;
7 a partition manager residing in the memory and executed by the at least one
8 processor, the partition manager managing the plurality of logical partitions and executing
9 separately from the plurality of logical partitions, the partition manager comprising:
10 an I/O reconfiguration mechanism that reconfigures the identified I/O; and
11 a logical partition suspend/resume mechanism that suspends ~~at least one~~
12 all of the plurality of logical partitions before the I/O reconfiguration mechanism
13 reconfigures the identified I/O by inhibiting dispatch of tasks to ~~the at least one~~
14 ~~logical partition~~ all of the plurality of logical partitions and waiting until all
15 pending tasks in ~~the at least one logical partition~~ all of the plurality of logical
16 partitions are complete, and that resumes all ~~suspended~~ of the plurality of logical
17 partitions after the I/O reconfiguration mechanism reconfigures the identified I/O
18 by enabling dispatch of tasks to ~~the at least one logical partition~~ all of the plurality
19 of logical partitions.

1 2-3 (Cancelled)

1 4 (Currently Amended) An apparatus comprising:
2 at least one processor;
3 a memory coupled to the at least one processor;
4 a plurality of logical partitions defined on the apparatus, the plurality of logical
5 partitions comprising at least one logical partition that owns identified I/O and at least
6 one logical partition that does not own the identified I/O; and
7 a partition manager residing in the memory and executed by the at least one
8 processor and executing separately from the plurality of logical partitions, the partition
9 manager performing the steps of:
10 (1) detecting when the identified I/O requires reconfiguration;
11 (2) suspending ~~at least one~~ all of the plurality of logical partitions by
12 inhibiting dispatch of tasks to ~~the at least one logical partition~~ all of the plurality
13 of logical partitions and waiting until all pending tasks in ~~the at least one logical~~
14 ~~partition~~ all of the plurality of logical partitions are complete;
15 (3) reconfiguring the identified I/O; and
16 (4) resuming all of the plurality of logical partitions ~~suspended in step (2)~~
17 by enabling dispatch of tasks to all of the plurality of logical partitions ~~suspended~~
18 ~~in step (2)~~.

1 5. (Currently Amended) An apparatus comprising:
2 at least one processor;
3 a memory coupled to the at least one processor;
4 a plurality of logical partitions defined on the apparatus, the plurality of logical
5 partitions comprising at least one logical partition that owns identified I/O and at least
6 one logical partition that does not own the identified I/O;
7 a partition manager residing in the memory and executed by the at least one
8 processor and executing separately from the plurality of logical partitions, the partition
9 manager performing the steps of:
10 (1) quiescing the identified I/O;
11 (2) suspending ~~at least one~~ all of the plurality of logical partitions ~~that~~
12 ~~owns at least a portion of the identified I/O~~ by inhibiting dispatch of tasks to ~~the at~~
13 ~~least one logical partition~~ all of the plurality of logical partitions and waiting until
14 all pending tasks in ~~the at least one logical partition~~ all of the plurality of logical
15 partitions are complete;
16 (3) reconfiguring the identified I/O;
17 (4) enabling the reconfigured identified I/O; and
18 (5) resuming all of the plurality of logical partitions ~~suspended in step (2)~~
19 by enabling dispatch of tasks to all of the plurality of logical partitions ~~suspended~~
20 ~~in step (2)~~.

1 6. (Currently Amended) A computer-implemented method for reconfiguring identified
2 I/O in a computer system that includes a plurality of logical partitions managed by a
3 partition manager executing separately from the plurality of logical partitions, the
4 plurality of logical partitions comprising at least one logical partition that owns the
5 identified I/O and at least one logical partition that does not own the identified I/O, the
6 method comprising the steps of:
7 (1) the partition manager suspending ~~at least one~~ all of the plurality of logical
8 partitions by inhibiting dispatch of tasks to ~~the at least one logical partition~~ all of the
9 plurality of logical partitions and waiting until all pending tasks in ~~the at least one logical~~
10 ~~partition~~ all of the plurality of logical partitions are complete;
11 (2) the partition manager reconfiguring the identified I/O; and
12 (3) the partition manager resuming all of the plurality of logical partitions
13 ~~suspended in step (1)~~ by enabling dispatch of tasks to all of the plurality of logical
14 partitions ~~suspended in step (1)~~.

1 7-8 (Cancelled)

1 9. (Currently Amended) A computer-implemented method for reconfiguring identified
2 I/O in a computer system that includes a plurality of logical partitions managed by a
3 partition manager executing separately from the plurality of logical partitions, the
4 plurality of logical partitions comprising at least one logical partition that owns the
5 identified I/O and at least one logical partition that does not own the identified I/O, the
6 method comprising the steps of:
7 (1) the partition manager detecting when the identified I/O requires
8 reconfiguration;
9 (2) the partition manager suspending ~~at least one~~ all of the plurality of logical
10 partitions by inhibiting dispatch of tasks to ~~the at least one logical partition~~ all of the
11 plurality of logical partitions and waiting until all pending tasks in ~~the at least one logical~~
12 ~~partition~~ all of the plurality of logical partitions are complete;
13 (3) the partition manager reconfiguring the identified I/O; and
14 (4) the partition manager resuming all of the plurality of logical partitions
15 ~~suspended in step (2)~~ by enabling dispatch of tasks to all of the plurality of logical
16 partitions ~~suspended in step (2)~~.

1 10. (Currently Amended) A computer-implemented method for reconfiguring identified
2 I/O in a computer system that includes a plurality of logical partitions managed by a
3 partition manager executing separately from the plurality of logical partitions, the
4 plurality of logical partitions comprising at least one logical partition that owns the
5 identified I/O and at least one logical partition that does not own the identified I/O, the
6 method comprising the steps of:
7 (1) the partition manager quiescing the identified I/O;
8 (2) the partition manager suspending ~~at least one~~ all of the plurality of logical
9 partitions ~~that owns at least a portion of the identified I/O~~ by inhibiting dispatch of tasks
10 ~~to the at least one logical partition~~ all of the plurality of logical partitions and waiting
11 until all pending tasks in ~~the at least one logical partition~~ all of the plurality of logical
12 partitions are complete;
13 (3) the partition manager reconfiguring the identified I/O;
14 (4) the partition manager enabling the reconfigured identified I/O; and
15 (5) the partition manager resuming all of the plurality of logical partitions
16 ~~suspended in step (2)~~ by enabling dispatch of tasks to all of the plurality of logical
17 partitions ~~suspended in step (2)~~.

1 11. (Currently Amended) A program product comprising:
2 (A) a partition manager executing separately from a plurality of logical partitions
3 comprising at least one logical partition that owns identified I/O and at least one logical
4 partition that does not own the identified I/O, the partition manager comprising a logical
5 partition suspend/resume mechanism that suspends ~~at least one~~ all of the plurality of
6 logical partitions before the identified I/O is reconfigured by inhibiting dispatch of tasks
7 ~~to the at least one logical partition~~ all of the plurality of logical partitions and waiting
8 until all pending tasks in ~~the at least one logical partition~~ all of the plurality of logical
9 partitions are complete, the logical partition suspend/resume mechanism resuming all
10 ~~suspended~~ of the plurality of logical partitions after the identified I/O is reconfigured by
11 enabling dispatch of tasks to ~~the at least one logical partition~~ all of the plurality of logical
12 partitions; and
13 (B) recordable media bearing the partition manager.

1 12-15 (Cancelled)

1 16. (Currently Amended) A program product comprising:
2 (A) a partition manager executing separately from a plurality of logical partitions,
3 the plurality of logical partitions comprising at least one logical partition that owns
4 identified I/O and at least one logical partition that does not own the identified I/O, that
5 performs the partition manager performing the steps of:
6 (1) detecting when the identified I/O requires reconfiguration;
7 (2) suspending ~~at least one~~ all of the plurality of logical partitions by
8 inhibiting dispatch of tasks to ~~the at least one logical partition~~ all of the plurality
9 of logical partitions and waiting until all pending tasks in ~~the at least one logical~~
10 ~~partition~~ all of the plurality of logical partitions are complete;
11 (3) reconfiguring the identified I/O; and
12 (4) resuming all of the plurality of logical partitions ~~suspended in step (2)~~
13 by enabling dispatch of tasks to all of the plurality of logical partitions ~~suspended~~
14 ~~in step (2)~~; and
15 (B) recordable media bearing the partition manager.

1 17-18 (Cancelled)

1 19. (Currently Amended) A program product comprising:
2 (A) a partition manager executing separately from a plurality of logical partitions,
3 the plurality of logical partitions comprising at least one logical partition that owns
4 identified I/O and at least one logical partition that does not own the identified I/O, that
5 performs the partition manager performing the steps of:
6 (1) quiescing the identified I/O;
7 (2) suspending ~~at least one~~ all of the plurality of logical partitions ~~that~~
8 ~~owns at least a portion of the identified I/O~~ by inhibiting dispatch of tasks to ~~the at~~
9 ~~least one logical partition~~ all of the plurality of logical partitions and waiting until
10 all pending tasks in ~~the at least one logical partition~~ all of the plurality of logical
11 partitions are complete;
12 (3) reconfiguring the identified I/O;
13 (4) enabling the reconfigured identified I/O; and
14 (5) resuming all of the plurality of logical partitions ~~suspended in step (2)~~
15 by enabling dispatch of tasks to all of the plurality of logical partitions ~~suspended~~
16 ~~in step (2)~~; and
17 (B) recordable media bearing the partition manager.

1 20-21 (Cancelled)

STATUS OF THE CLAIMS

Claims 1-21 were originally filed in this patent application. In response to the first office action dated 8/30/05, applicants filed an amendment on 11/30/05 that cancelled claims 12, 13, 17, 18, 20 and 21 and amended claims 1, 4-6, 9-11, 16 and 19. In response to the second office action dated 02/06/2006, an RCE and Amendment were filed on 05/04/2006. In response to the third office action dated 07/12/2006, an Amendment was filed that amended claims 1, 4-6, 9-11, 16 and 19. In the pending fourth office action, claims 1-11, 14-16 and 19 were rejected under 35 U.S.C. §103(a) as being unpatentable over U.S. Patent Application Publication 2003/0084030 to Day *et al.* (hereinafter “Day”) in view of U.S. Patent Application Publication 2002/0112102 to Tarui *et al.* (hereinafter “Tarui”). No claim was allowed. In this amendment, claims 2-3, 7-8 and 14-15 have been cancelled, and claims 1, 4-6, 9-11, 16 and 19 have been amended. Claims 1, 4-6, 9-11, 16 and 19 are currently pending.